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Corpus Linguistics: Automatic recognition of distinguishing negative indirect history language in judicial opinions

Jack G. Conrad, Daniel P. Dabney

October 2001 Proceedings of the tenth international conference on Information and knowledge management

Full text available: pdf(1.55 MB)

Additional Information: full citation, abstract, references, index terms

We describe a model-based filtering application that generates candidate case-to-case distinguishing citations. We developed the system to aid editors in identifying indirect relationships among judicial opinions in a database of over 5 million documents. Using a training collection of approximately 30,000 previously edited cases, the filter application provides ranked sets of textual evidence for current case law documents in the editorial process. These sets contain judicial language with a st ...

Keywords: case law analysis, citation loci, distinguished cases, legal research

A cognitive approach to judicial opinion structure: applying domain expertise to component analysis

Jack G. Conrad, Daniel P. Da bney

May 2001 Proceedings of the 8th international conference on Artificial intelligence and law

Full text available: pdf(217.20 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

Empirical research on basic *components* of American judicial opinions has only scratched the surface. Lack of a coordinated pool of legal experts or adequate computational resources are but two reasons responsible for this deficiency. We have undertaken a study to uncover fundamental components of judicial opinions found in American case law. The study was aided by a team of twelve expert attorney-editors with a combined total of 135 years of legal editing experience. The scientific hyp ...

Keywords: case law analysis, cognitive models, document structure

3 Early user---system interaction for database selection in massive domain-specific online environments

Jack G. Conrad, Joanne R. S. Claussen

January 2003 ACM Transactions on Information Systems (TOIS), Volume 21 Issue 1

Full text available: pdf(845.54 KB) Additional Information: full citation, abstract, references, index terms

The continued growth of very large data environments such as Westlaw and Dialog, in

addition to the World Wide Web, increases the importance of effective and efficient database selection and searching. Current research focuses largely on completely autonomous and automatic selection, searching, and results merging in distributed environments. This fully automatic approach has significant deficiencies, including reliance upon thresholds below which databases with relevant documents are not search ...

**Keywords**: Database selection, metadata for retrieval, structuring information to aid search and navigation, user interaction

4 Research abstracts: A meta-level approach to the analysis of legal phenomena based on the key concept of reduction

Clara P. Smith

June 2003 Proceedings of the 9th international conference on Artificial intelligence and law

Full text available: pdf(179.89 KB) Additional Information: full citation, abstract, references

In this paper we show how the alleged relationship between AI and Law exhibits an example of reductions of a relevant kind. We put forward a methodological approach, based on the key epistemological concept of reduction, to the understanding, explanation and conceptualisation of phenomena concerning legal systems. This approach is appropriate as a meta-analysis of what happens when we work, think and deal with the many several aspects of legal systems, not only from purist but also from pragmati ...

5 Appication models: Client-system collaboration for legal corpus selection in an online production environment

Jack G. Conrad, Joanne R. S. Claussen

June 2003 Proceedings of the 9th international conference on Artificial intelligence and law

Full text available: pdf(239.10 KB) Additional Information: full citation, abstract, references

The continued growth of very large data environments such as Westlaw and Dialog, in addition to the World Wide Web, increases the importance of effective and efficient database selection and searching. Current research focuses largely on completely autonomous and automatic selection, searching, and results merging in distributed environments. This fully automatic approach has significant deficiencies, including reliance upon thresholds below which databases with relevant documents are not search ...

**Keywords**: database selection, query categorization, user interaction

6 Anaphora resolution in the extraction of treatment history language from court opinions by partial parsing

Khalid Al-Kofahi, Brian Grom, Peter Jackson

June 1999 Proceedings of the 7th international conference on Artificial intelligence and law

Full text available: pdf(1.06 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper describes an information extraction system that identifies and analyzes statements in court opinions regarding the value of cited cases as precedents. The system employs partial parsing techniques in conjunction with a semantic grammar to identify the language associated with such rulings. The most novel aspect of the system lies in its anaphora resolution module that combines syntactic, semantic, and domain-specific inference rules with local discourse information to link such I ...

**Keywords**: anaphora resolution, information extraction

7 Review of "Ambiguity resolution in language learning: computational and cognitive

	models by Hillich Schulze. CSLI Publications 1997.	
	I. Dan Melamed, Hang Li September 1999 <b>Computational Linguistics</b> , Volume 25 Issue 3	
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8/2	Fast supervised dimensionality reduction algorithm with applications to document categorization & retrieval  George Karypis, Eui-Hong (Sam) Han  November 2000 Proceedings of the ninth international conference on Information and knowledge management  Full text available: pdf(270.71 KB) Additional Information: full citation, references, citings, index terms	
9	Information extraction from case law and retrieval of prior cases by partial parsing and query generation  Peter Jackson, Khalid Al-Kofahi, Chris Kreilick, Brian Grom  November 1998 Proceedings of the seventh international conference on Information and knowledge management  Full text available: pdf(2.47 MB) Additional Information: full citation, references, citings, index terms	
10	Legally speaking: how to interpret the Lotus decision (and how not to)  Pamela Samuelson  November 1990 Communications of the ACM, Volume 33 Issue 11	
	Full text available: pdf(898.85 KB) Additional Information: full citation, abstract, references, index terms  On June 28, 1990, a federal court judge in Boston made public his decision in favor of Lotus Development Corporation in its software copyright lawsuit against Paperback Software. People in the software industry had been waiting for this decision since the lawsuit was first filed in January 1987, certain that it would be a landmark case and would resolve many vexing questions about copyright protection for user interfaces. The trade press has abounded with varying interpretations o	
11	Poster session: Effective collection metasearch in a hierarchical environment: global vs. localized retrieval performance  Jack G. Conrad, Changwen Yang, Joanne S. Claussen  August 2002 Proceedings of the 25th annual international ACM SIGIR conference on Research and development in information retrieval  Full text available: pdf(109.19 KB) Additional Information: full citation, abstract, references, index terms	
	We compare standard global IR searching with user-centric localized techniques to address the <i>database selection problem</i> . We conduct a series of experiments to compare the retrieval effectiveness of three separate search modes applied to a hierarchically structured data environment of textual database representations. The data environment is represented as a tree-like directory containing over 15,000 unique databases and over 100,000 total leaf nodes. Our search modes consist of varying d	
	Simulating a proposed information delivery system  Eugenio M. Alvarez, Paul R. Mitchell, Walter M. Callahan, Peter Hoefer, Raymond Telerole November 1996 Proceedings of the 28th conference on Winter simulation  Full text available: pdf(288.72 KB) Additional Information: full citation, references	

13 December with most considerable and the second s	Page 4 of 5
13 Reasoning with portions of precedents  L. Karl Branting	
May 1991 Proceedings of the 3rd international conference on Artificial intelligence and law	
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14 Ditayt mans and alignment via nottern recognition	<u></u>
<ul> <li>Bitext maps and alignment via pattern recognition</li> <li>I. Dan Melamed</li> <li>March 1999 Computational Linguistics, Volume 25 Issue 1</li> </ul>	
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Texts that are available in two languages (bitexts) are becoming more and more plentiful, both in private data warehouses and on publicly accessible sites on the World Wide Web. As with other kinds of data, the value of bitexts largely depends on the efficacy of the available data mining tools. The first step in extracting useful information from bitexts is to find corresponding words and/or text segment boundaries in their two halves (bitext maps). This article advances the state o	
Models of translational equivalence among words  I. Dan Melamed June 2000 Computational Linguistics, Volume 26 Issue 2	
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Parallel texts (bitexts) have properties that distinguish them from other kinds of parallel data. First, most words translate to only one other word. Second, bitext correspondence is typically only partialmany words in each text have no clear equivalent in the other text. This article presents methods for biasing statistical translation models to reflect these properties. Evaluation with respect to independent human judgments has confirmed that translation models biased in this fashion are si	
<sup>16</sup> Session 2: computers and privacy: Privacy	
Susan H. Nycum November 1976 <b>Proceedings of the 4th annual ACM SIGUCCS conference on User</b>	_
services Full text available: pdf(17.65 KB) Additional Information: full citation, abstract	
Privacy is a concern to user services people as individuals and as members of computer installations. The discussion will focus on the federal Privacy Act of 1974 as interpreted by the OMB Guidelines and state statutes and judicial opinions. The discussion will emphasize do's and don'ts for user service personnel in the conduct of their responsibilities so as to comply with the law.	
17 Arabic Information Retrieval: Improving stemming for Arabic information retrieval: light	
stemming and co-occurrence analysis  Leah S. Larkey, Lisa Ballesteros, Margaret E. Connell  August 2002 Proceedings of the 25th annual international ACM SIGIR conference on  Research and development in information retrieval	_
Full text available: pdf(324.52 KB)  Additional Information: full citation, abstract, references, citings, index terms	
Arabic, a highly inflected language, requires good stemming for effective information retrieval, yet no standard approach to stemining has emerged. We developed several light stemmers based on heuristics and a statistical stemmer based on co-occurrence for Arabic retrieval. We compared the retrieval effectiveness of our stemmers and of a morphological analyzer on the TREC-2001 data. The best light stemmer was more effective for cross-language retrieval than a morphological stemmer which tried t	

Keywords: Arabic, cross-language information retrieval, cross-lingual, stemming

	Text Extraction and Summarize	zation: Combining	multiple classifiers for text			
	<u>categorization</u> Khalid Al-Kofahi, Alex Tyrrell, Arun Vachher, Tim Travers, Peter Jackson					
	October 2001 Proceedings of the tenth international conference on Information and knowledge management					
	Full text available: pdf(1.94 MB)	Additional Information	n: <u>full citation</u> , <u>abstract</u> , <u>references</u> , <u>citings</u> , <u>index</u> <u>terms</u>			
	A major problem facing online information services is how to index and supplement large document collections with respect to a rich set of categories. We focus upon the routing of case law summaries to various secondary law volumes in which they should be cited. Given the large number (> 13,000) of closely related categories, this is a challenging task that is unlikely to succumb to a single algorithmic solution. Our fully implemented and recently deployed system shows that a superior classifica					
	Keywords: document classifi	cation, multi-classi	fier			
19,	Improving the representation	of legal case text	s with information extraction methods			
	Stefanie Brüninghaus, Kevin D. 🛭	Ashley	conference on Artificial intelligence			
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	use of AI and Law systems su been made toward extracting	pporting reasoning certain facts from ber concepts, thes	al cases is a major obstacle for the practical and arguing with cases. While progress has well-structured case texts or classifying e methods still do not suffice for the	;		
	In this paper, we lay out how	a better example r	epresentation may facilitate cla			
20	Looking at digital library usabi	lity from a reuse	<u>perspective</u>			
	Tamara Sumner, Melissa Dawe January 2001 <b>Proceedings of th</b>	e 1st ACM/IEEE-	CS joint conference on Digital libraries			
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21 Snap-together visualization: a user interface for coordinating visualizations via relational schemata

Chris North, Ben Shneiderman

May 2000 Proceedings of the working conference on Advanced visual interfaces

Full text available: pdf(2.11 MB) Additional Information: full citation, abstract, references, citings

Multiple coordinated visualizations enable users to rapidly explore complex information. However, users often need unforeseen combinations of coordinated visualizations that are appropriate for their data. Snap-Together Visualization enables data users to rapidly and dynamically mix and match visualizations and coordinations to construct custom exploration interfaces without programming. Snap's conceptual model is based on the relational database model. Users load relations into visualizati ...

Keywords: coordination, information visualization, multiple views, relational database, tight coupling, user interface, user study

22 Some arguments about legal arguments

L. Thorne McCarty

June 1997 Proceedings of the 6th international conference on Artificial intelligence and law

Full text available: pdf(1.52 MB)

Additional Information: full citation, references, citings, index terms

<sup>23</sup> Making way for intelligence in case space

Philip Greenspun, Marc Lauritsen

May 1995 Proceedings of the 5th international conference on Artificial intelligence and law

Full text available: pdf(676.11 KB) Additional Information: full citation, references, index terms

24 Issue spotting in legal cases

Barbara Cuthill, Robert McCartney

August 1993 Proceedings of the 4th international conference on Artificial intelligence and law

Additional Information: full citation, abstract, references, index terms Full text available: pdf(802.62 KB)

For any system that uses previous experience to solve problems in new situations, it is necessary to identify the features in the situation that should match features in the previous cases through some process of situation analysis. In this paper, we examine as issue

spotting; in particular, we present how issues spotting is implemented in CHASER, a legal reasoning system that works in the domain of tort law. The approach presented here is a comp ...

25 Representing teleological structure in case-based legal reasoning: the missing link Donald H. Berman, Carole D. Hafner

August 1993 Proceedings of the 4th international conference on Artificial intelligence and law

Full text available: pdf(924.99 KB)

Additional Information: full citation, abstract, references, citings, index terms

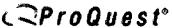
We argue that robust case-based models of legal knowledge that represent the way in which practicing professionals use legal decisions must contain a deeper domain model that represents the purposes behind the rules articulated in the cases. We propose a model for representing the teleological components of legal decisions, and we suggest a method for utilizing this representation in a HYPO-like framework for case-based legal argument.

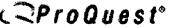
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